**Homework 70** Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Sin & Cos on Unit Circle** Period:\_\_\_\_Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Failure to show all work and write in complete sentences will result in LaSalle!**

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| Write the Pythagorean Theorem: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Write the Pythagorean Theorem as applied to the unit circle using x and y: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Write the Pythagorean Theorem as applied to the unit circle using sine and cosine: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | |
| For each of the following, draw the special right triangle associated with that angle inside the unit circle.  **Show all work in finding cos and sin, even if you have already memorized these values.** | |
| 1.  = 45°  cos 45° =  sin 45° =  Coordinates = | 2.  = 30°  cos 30° =  sin 30° =  Coordinates = |
| 3.  = 60°  cos 60° =  sin 60° =  Coordinates = | 4.  = 90°  Coordinates = |